International application No.
PCT/AU2004/001057

Α.	CLASSIFICATION OF SUBJECT MATTER	9 0 1 F 2	
Int. Cl. 7:	G01N 33/68	10/56	894
According to I	nternational Patent Classification (IPC) or to both	national classification and IPC	
В.	FIELDS SEARCHED	<u> </u>	
See "electron	nentation searched (classification system followed by c tic data base" box below	·	
See "electron	ic data base" box below	ent that such documents are included in the fields search	ned
MEDLINE, O	base consulted during the international search (name of CAPLUS, WPIDS: glut, glut1, glut4, traffic?, meabilis?, rupture?, assay, process, method, l	translocat?, tag, marker, ligand, bind, bound,	receptor, lys?,
C .	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
,A	US 6 303 373 B1 (BOGAN et al.) 16 Octob Whole specification	er 2001	1(in part), 2- 62
P,A	US 6 632 924 B2 (BOGAN et al.) 14 Octob Whole specification	er 2003	1(in part), 2- 62
A	US 5 989 893 A (CZECH et al.) 23 November Whole specification	per 1999	1(in part), 2- 62
A	SLOT, J.W. et al., "Translocation of the glumyocytes of the rate", Proc. Natl. Acad. Sci 7815-7819 Whole article	ncose transporter GLUT4 in cardiac . USA, September 1991, Vol. 88, pages	1(in part), 2- 62
F	urther documents are listed in the continuation	n of Box C X See patent family anno	ex
"A" documen	dered to be of particular relevance	ater document published after the international filing date or properties of the princip of the invention but cited to understand the princip inderlying the invention	riority date and not in le or theory
	plication or patent but published on or after the "X" of the published on or after the published on or after the "X" of the published on or after the publi	locument of particular relevance; the claimed invention cannot or cannot be considered to involve an inventive step when the	be considered novel document is taken
or which another o	t which may throw doubts on priority claim(s) "Y" of is cited to establish the publication date of itation or other special reason (as specified)	lone locument of particular relevance; the claimed invention cannot nvolve an inventive step when the document is combined with uch documents, such combination being obvious to a person si	one or more other
"O" documen	t referring to an oral disclosure, use, exhibition	locument member of the same patent family	
	t published prior to the international filing date than the priority date claimed		
	al completion of the international search	Date of mailing of the international search report 2 1 FEB 2005	
7 February 2	005 ng address of the ISA/AU	Authorized officer	
AUSTRALIAN	PATENT OFFICE WODEN ACT 2606, AUSTRALIA	JAMIE TURNER	
E-mail address: Facsimile No. (pct@ipaustralia.gov.au	Telephone No: (02) 6283 2071	

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	FCI/AU2004/	
C (Continuation	on). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HANEY, P.M., "Intracellular Targetting of the Insulin-regulatable Glucose Transporter (GLUT4) Is Isoform Specific and Independent of Cell Type", The Journal of Cell Biology, August 1991, Vol. 114, No. 4, pages 689-699 Whole article WANG et al., "GLUT4 Translocation by Insulin in Intact Muscle Cells: Detection by a fast and Quantitative Assay", FEBS Letters, 1998, Vol. 427, pages 193-197	1(in part), 2 62
X	See especially paragraph 3.4 at page 195	1(in part), 2- 62
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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international reasons:	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.:
-	because they relate to subject matter not required to be searched by this Authority, namely:
	•
2. X	Claims Nos.: 1
•	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	Claim 1 is not limited to the technical features of the invention described in the international application. Clearly, there is support only for the determination of membrane transport proteins which are glucose transport (GLUT) proteins, notably GLUT1 and GLUT4. Because claim 1 is not limited to the detection of GLUT proteins it is not considered limited to the technical features of the invention.
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Interna	tional Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
•	·
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on	Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
·	170 protest accompanied the payment of additional source root.

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Supplemental Box (To be used when the space in any of Boxes I to	VIII is not sufficie	nt)				
Continuation of Box No:	VIII IS HOL SUILCIE					·-
It should be noted that an amended p 2004 with the International Bureau. referred to in Article 19 and Rule 46 be noted that the subject matter of contemporational Search Report. Further	Unfortunately, 6.1, these amend laims 53-54 (as er, it is apparent	because thes ments canno if they were	e amendment t be consider amended) wa	ts were r ed under s nevert	not filed in the Art. 19. How heless the subj	time frame ever, it should ect of the
disclosure of the international applic	cation as filed.					
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Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	ent Family Member		
US	6303373	AU	54775/00	EP	1189943	US	6632924
		US	2002052012	US	2002155479	wo	0075188
•		wo	02059299				
US	5989893	AU	78448/94	EP	0721508	wo	9509240

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX